

Amendments to the Abstract

Please replace the Abstract with the following
amended Abstract:

ABSTRACT OF THE DISCLOSURE

A reaction probe chip ~~comprising~~ includes a substrate having a plurality of discrete, regularly arranged through-holes; ~~and a porous carrier filled into and is held in the~~ through-holes, the carrier having different probe molecules fixed thereto ~~such that the probe molecules are different~~ according to the through-holes. The porous carrier ~~having the probe molecules fixed thereto is~~ preferably a porous membrane, a nonwoven fabric, or porous glass entangled with or bound to the porous membrane or nonwoven fabric. A reaction product detection system flows a sample, including fluorescence labeled DNA to be detected, simultaneously and slowly through ~~a plurality of the discrete through-holes regularly arranged in a of the~~ substrate, thereby binding an analyte to probe molecules, and detects the analyte by a fluorescence detector. The reaction probe chip and the detection system ~~based on a convenient method for preparing DNA Chip~~ can be used in various diagnoses of physiological functions, including DNA polymorphism.